METHOD AND APPARATUS FOR MONITORING TURBINE PARAMETERS OF TURBINE/ALTERNATOR ON COMMON SHAFT

ABSTRACT OF THE DISCLOSURE

An electrical system and apparatus for a turbine/alternator comprising a gas driven turbine and a permanent magnet alternator rotating on a common shaft includes an inverter circuit connectable either to an output circuit or the stator winding of the alternator. A control circuit during a start-up mode switches the inverter circuit to the stator winding of the alternator and during a power out mode switches the inverter circuit to the output circuit. The operating parameters of the turbine are monitored during start-up and/or the power out mode.